SIEMENS

Data sheet 3RB3113-4NE0



OVERLOAD RELAY 0.32...1.25 A FOR MOTOR PROTECTION SIZE S00, CLASS 5...30 CONTACTOR ASS. MAIN CIRCUIT: SPR.-LOAD.TERM. AUX.CIRCUIT: SPR.-LOAD.TERM. MANUAL-AUTOM.-RESET INT. GROUND FAULT DETECTION

Product brand name	SIRIUS
Product designation	solid-state overload relay
Product type designation	3RB3

General technical data	
Size of overload relay	S00
Size of contactor can be combined company-specific	S00
Power loss [W] total typical	0.1 W
Insulation voltage with degree of pollution 3 rated	690 V
value	
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
• in networks with grounded star point between	300 V
auxiliary and auxiliary circuit	
 in networks with grounded star point between 	300 V
auxiliary and auxiliary circuit	
• in networks with grounded star point between	600 V
main and auxiliary circuit	
• in networks with grounded star point between	690 V
main and auxiliary circuit	
Protection class IP	

• on the front	IP20
 of the terminal 	IP20
Vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s ² ; 10 cycles
Thermal current	1.25 A
Recovery time	
 after overload trip with automatic reset typical 	3 min
 after overload trip with remote-reset 	0 min
 after overload trip with manual reset 	0 min
Type of protection	II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]
Protection against electrical shock	finger-safe
Equipment marking acc. to DIN EN 81346-2	F

Ambient conditions	
Ambient temperature	
 during operation 	-25 +60 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
Temperature compensation	60 -25 °C

Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current-	0.32 1.25 A
dependent overload release	
Operating voltage	
• rated value	690 V
 for remote-reset function at DC 	24 V
 at AC-3 rated value maximum 	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	1.25 A
Operating power for three-phase motors at 400 V at 50 Hz	0.12 0.37 kW

Auxiliary circuit	
Design of the auxiliary switch	integrated
Number of NC contacts	
 for auxiliary contacts 	1
— Note	for contactor disconnection
Number of NO contacts	
 for auxiliary contacts 	1
— Note	for message "tripped"
Number of CO contacts	
 for auxiliary contacts 	0
Operating current of auxiliary contacts at AC-15	
● at 24 V	4 A

● at 110 V	4 A
● at 120 V	4 A
● at 125 V	4 A
● at 230 V	3 A
Operating current of auxiliary contacts at DC-13	
● at 24 V	2 A
● at 60 V	0.55 A
● at 110 V	0.3 A
● at 125 V	0.3 A
● at 220 V	0.11 A

Protective and monitoring functions	
Trip class	CLASS 5E, 10E, 20E and 30E adjustable
Design of the overload release	electronic
Response time of the ground fault protection in settled state	1 000 ms
Operating range of the ground fault protection relating to current setting value	
• minimum	IMotor > lower current setting value
• maximum	IMotor < upper current setting value x 3.5

UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	1.25 A
• at 600 V rated value	1.25 A
Contact rating of auxiliary contacts according to UL	B600 / R300

Short-circuit protection

Design of the fuse link

• for short-circuit protection of the main circuit

— with type of coordination 1 required

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gG: 35 A, RK5: 6 A

gG: 6 A

fuse gG: 6 A

nstallation/ mounting/ dimensions	
Mounting position	any
Mounting type	direct mounting
Height	72 mm
Width	45 mm
Depth	90 mm
Required spacing	
 with side-by-side mounting 	
— forwards	0 mm
— Backwards	0 mm

Connections/Terminals	
Product function	
 removable terminal for auxiliary and control 	Yes
circuit	
Type of electrical connection	
for main current circuit	spring-loaded terminals
 for auxiliary and control current circuit 	spring-loaded terminals
Arrangement of electrical connectors for main current	Top and bottom
circuit	
Type of connectable conductor cross-sections	
• for main contacts	
— solid	1x (0.5 4 mm²)
— single or multi-stranded	1x (0,5 4 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm²)
 finely stranded without core end 	1x (0.5 2.5 mm²)
processing	
 at AWG conductors for main contacts 	1x (20 12)
Type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid	2x (0.25 1.5 mm²)
— single or multi-stranded	2x (0,25 1,5 mm²)
— finely stranded with core end processing	2x (0.25 1.5 mm²)
finely stranded without core end	2x (0.25 1.5 mm²)
processing	
 at AWG conductors for auxiliary contacts 	1x (24 16), 2x (24 16)
Design of screwdriver shaft	Diameter 5 to 6 mm
Size of the screwdriver tip	Pozidriv PZ 2

Communication/ Protocol

Type of voltage supply via input/output link master

No

10 V/m

Electromagnetic compatibility

Field-bound parasitic coupling acc. to IEC 61000-4-3

Electrostatic discharge acc. to IEC 61000-4-2

6 kV contact discharge / 8 kV air discharge

Display

Display version

for switching status

Slide switch

Certificates/approvals

General Product Approval

EMC

For use in hazardous locations













Declaration of Conformity

Test Certificates

Marine / Shipping



Special Test Certificate Type Test
Certificates/Test
Report





other



LRS

Marine / Shipping









Environmental Confirmations

Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB3113-4NE0

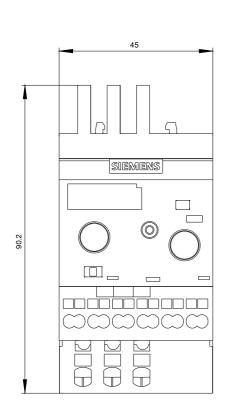
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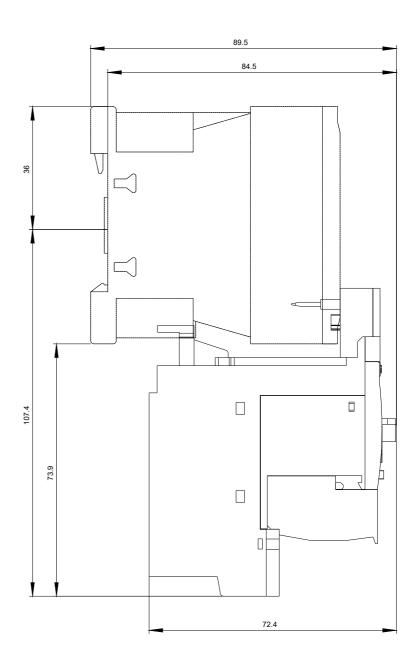
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3113-4NE0

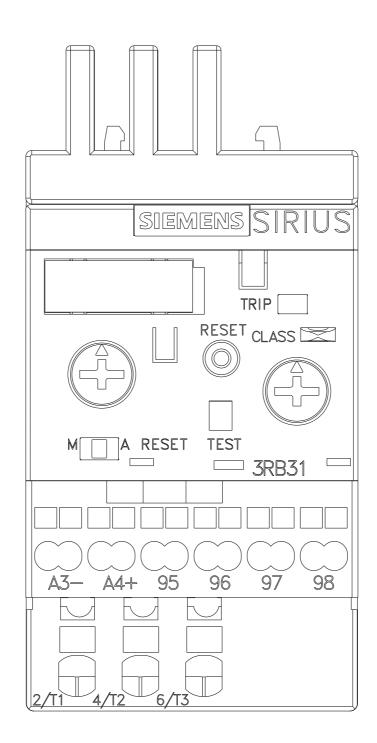
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

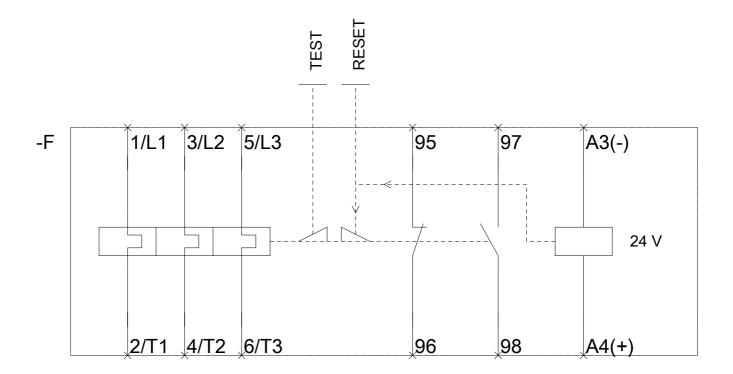
https://support.industry.siemens.com/cs/ww/en/ps/3RB3113-4NE0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3113-4NE0&lang=en









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